IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

GLOTZER et al.

Appl. No. 09/881,736

Filed: June 18, 2001

Cyk-4 Polypeptides, DNA Molecules Encoding Them and Their use in Screening Methods Confirmation No. 8755

Art Unit:

1653

Examiner:

To be assigned

Atty. Docket: 0652.2260001/EKS/AES



Information Disclosure Statement

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Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

GLOTZER *et al.* Appl. No. 09/881,736

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 and indicate in the official file wrapper of this patent application that the documents have been considered.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this pleading is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Eric K. Steffe

Attorney for Applicants Registration No. 36,688

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INFORMATION DISCLOSURE STATEMENT NO.

ATTY. DOCKET NO. 0652.2260001/EKS/AES

APPLICATION NO. 09/881,736

APPLICANT GLOTZER et al.

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	Bosher, J.M. and Labouesse, M., "RNA interference: genetic wand and genetic watchdog," <i>Nat. Cell Biol. 2</i> :E31-E36, Macmillan Publishers, Ltd. (February 2000).										
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	AS	<u>2</u>	at cortica	Busson, S. et al., "Dynein and dynactin are localized to astral microtubules and at cortical sites in mitotic epithelial cells," <i>Curr. Biol. 8</i> :541-544, Current Biology Ltd. (1998).							
	AT	<u>2</u>	the Stimul	lation of Cytol	-l., "Signals from the Spinokinesis in Cultured Epithel: Society for Cell Biology (ial Cells,	e Are Requ	uired for ol. Cell			
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	AT	<u>3</u>	Case, R.B. et al., "Role of the kinesin neck linker and catalytic core in microtubule-based motility," Curr. Biol. 10:157-160, Elsevier Science Ltd. (January 2000).							
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	OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Castrillon, D.H. and Wasserman, S.A., "diaphanous is required for cytokinesis in Drosophila and shares domains of similarity with the products of the limb deformity gene," Development 120:3367-3377, The Company of Biologists Limited (1994).									
	AS	<u>4</u>	Is a Compo	Chang, F. et al., "cdc12p, a Protein Required for Cytokinesis in Fission Yeast, Is a Component of the Cell Division Ring and Interacts with Profilin," <i>J. Cell Biol.</i> 137:169-182, The Rockefeller University Press (1997).						
	АТ	<u>4</u>	Cell Divis	sion," <i>J. Biol</i> .	es of Two Homotetrameric Ki . <i>Chem. 275</i> :38005-38011, Th llar Biology, Inc. (December	ne American	Sea Urchi 1 Society	n Embryonic for		
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	Drechsel, D.N. et al., "A requirement for Rho and Cdc42 during cytokinesis in Xenopus embryos," Curr. Biol. 7:12-23, Current Biology Ltd. (1996).								
	AS	<u>5</u>	Dutartre, H. et al., "Cytokinesis arrest and redistribution of actin-cytoskeleton regulatory components in cells expressing the Rho GTPase CDC42Hs," J. Cell Sci. 109:367-377, The Company of Biologists Limited (1996).						
	Echard, A. et al., "Interaction of a Golgi-Associated Kinesin-Like Protein with Rab6," Science 279:580-585, The American Association for the Advancement of Science (1998).								
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	AS	Evangelista, M. et al., "Bnilp, a Yeast Formin Linking Cdc42p and the Actin Cytoskeleton During Polarized Morphogenesis," Science 276:118-122, The American Association for Advancement of Science (1997).								
	Field, C. et al., "Cytokinesis in eukaryotes: a mechanistic comparison," Curr. Opin. Cell Biol. 11:68-80, Elsevier Science Ltd. (February 1999).									
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ADDRESS OF THE STATEMENT

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ATTY. DOCKET NO. 0652.2260001/EKS/AES APPLICATION NO. 09/881,736

APPLICANT GLOTZER *et al*.

FILING DATE June 18, 2001 GROUP 1653

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	Hyman, A.A. and White, J.G., "Determination of Cell Division Axes in the Early Embryogenesis of Caenorhabditis elegans," J. Cell Biol. 105:2123-2135, The Rockefeller University Press (1987).								
	Imamura, H. et al., "Bnilp and Bnrlp: downstream targets of the Rho family small G-proteins which interact with profilin and regulate actin cytoskeleton in Saccharomyces cerevisiae," EMBO J. 16:2745-2755, Oxford University Press (1997).								
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GLOTZER et al.
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ATTY. DOCKET NO. 0652.2260001/EKS/AES APPLICATION NO. 09/881,736

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	AS	<u>14</u>	cleavage i	Kosako, H. et al., "Specific accumulation of Rho-associated kinase at the cleavage furrow during cytokinesis: cleavage furrow-specific phosphorylation of intermediate filaments," Oncogene 18:2783-2788, Stockton Press (April 1999).							
	AT	<u>14</u>	Kull, F.J. et al., "Crystal structure of the kinesin motor domain reveals a structural similarity to myosin," <i>Nature 380</i> :550-555, Macmillan Publishers Ltd. (1996).								
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INFORMATION DISCLOSURE STATEMEN OF THE

ATTY. DOCKET NO. 0652.2260001/EKS/AES

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ATTY. DOCKET NO. 0652.2260001/EKS/AES

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ATTY. DOCKET NO. 0652.2260001/EKS/AES APPLICATION NO. 09/881,736

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	AS	<u>17</u>	and mitos:	Martineau-Thuillier, S. et al., "Colocalization of TD-60 and INCENP throughout G2 and mitosis: evidence for their possible interaction in signalling cytokinesis," Chromosoma 107:461-470, Springer-Verlag (1998).						
	АТ	<u>17</u>	Mastronard	de, D.N. <i>et al</i> :1475-1489, Th	., "Interpolar Spind e Rockefeller Univer	lle Microtubu sity Press (ıles i (1993)	n PTK Cel	ls," J. Cell	
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	AS .	18	Protein, K	iller, R.K. et al., "The Cortical Localization of the Microtubule Orientation rotein, Kar9p, Is Dependent upon Actin and Proteins Required for Polarization," Cell Biol. 144:963-975, The Rockefeller University Press (March 1999).							
	AT	<u>18</u>	Multinucle	ate Cell Forma	Inactivation of the Small G ation and Apoptosis in Muri ican Association of Immunol	ne T Lympho	oma EL4."	Rho Induces J. Immunol.			
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	AS	<u>19</u>	microtubul	o, C. et al., "A plus-end-directed motor enzyme that moves antiparallel ubules in vitro localizes to the interzone of mitotic spindles," Nature 13-547, Macmillan Publishers Ltd. (1992).						
	AT	<u>19</u>	O'Connell, Mutants of	K.F. et al., Caenorhabdit	"A Genetic Screen for Tempe is elegans," <i>Genetics 149</i> :13	∍rature-Se 303-1321 (:nsitive Ce	ell-Division		
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	AS	<u>20</u>	Diffusiona tubulin,"	Okada, Y. and Hirokawa, N., "Mechanism of the single-headed processivity: Diffusional anchoring between the K-loop of kinesin and the C terminus of Eubulin," <i>Proc. Natl. Acad. Sci. USA</i> 97:640-645, The National Academy of Sciences (January 2000).							
EXAMINER	AT	<u>20</u>	Powers, J. et al., "A nematode kinesin required for cleavage furrow advancement," Curr. Biol. 8:1133-1136, Current Biology Ltd. (1998). DATE CONSIDERED								
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

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ATTY. DOCKET NO. 0652.2260001/EKS/AES

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	АТ	<u>23</u>	Intervenir	Savoian, M.S. et al., "Cleavage Furrows Formed between Centrosomes Lacking an Intervening Spindle and Chromosomes Contain Microtubule Bundles, INCENP, and CHO1 but Not CENP-E," Mol. Biol. Cell 10:297-311, The American Society for Cell Biology (February 1999).							
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	AS	<u>24</u>	with Chrom and Cytoki	Schumacher, J.M. et al., "AIR-2: An Aurora/Ipll-related Protein Kinase Associated with Chromosomes and Midbody Microtubules Is Required for Polar Body Extrusion and Cytokinesis in Caenorhabditis elegans Embryos," J. Cell Biol. 143:1635-1646, The Rockefeller University Press (1998).							
	Settleman, J. and Foster, R., "Purification and GTPase-Activating Protein Activity of Baculovirus Expressed p190," Methods Enzymol. 256:105-113, Academic Press, Inc. (1995).										
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. line through citation if not in conformance and not considered. Include copy of this form with next

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	AS	<u>25</u>	Cells to 1	Sharp, D.J. et al., "Expression of a Kinesin-Related Motor Protein Induces Sf9 Cells to Form Dendrite-Like Processes with Nonuniform Microtubule Polarity Orientation," J. Neurosci. 16:4370-4375, Society for Neuroscience (1996).						
	АT	<u>25</u>	Sharp, P.A., "RNAi and double-strand RNA," <i>Genes Dev. 13</i> :139-141, Cold Spring Harbor Laboratory Press (January 1999).							
EXAMINER	•		•		***************************************	DATE CONS	IDERED			

FORM PTO-1449

INFORMATION DISCLOSURE SINCEMENT

ATTY. DOCKET NO. 0652.2260001/EKS/AES

APPLICATION NO. 09/881,736

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	AR AS	<u>26</u>	OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Skop, A.R. and White, J.G., "The dynactin complex is required for cleavage plane specification in early Caenorhabditis elegans embryos," Curr. Biol. 8:1110-1116, Current Biology Ltd. (1998). Sugihara, K. et al., "Rac1 is required for the formation of three germ layers during gastrulation," Oncogene 17:3427-3433, Stockton Press (1998).							
EXAMINER	AT	<u>26</u>	Sulston, J.E. and Horvitz, H.R., "Post-embryonic Cell Lineages of the Nematode, Caenorhabditis elegans," Dev. Biol. 56:110-156, Academic Press, Inc. (1977). DATE CONSIDERED							
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0652.2260001/EKS/AES

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GLOTZER et al. FILING DATE

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June 18, 2001 1653 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AA AΒ AC ΑD ΑE AF AG AΗ ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER SUB-INITIAL DOCUMENT DATE COUNTRY TRANSLATION CLASS" NUMBER Yes AL No Yes AM No Yes AN No Yes ΑO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Swan, K.A. et al., "cyk-1: a C. elegans FH gene required for a late step in AR 27 embryonic cytokinesis," J. Cell Sci. 111:2017-2027, The Company of Biologists Ltd. (1998). Tatsumoto, T. et al., "Human ECT2 Is an Exchange Factor for Rho GTPases, AS 27 Phosphorylated in G2/M phases, and Involved in Cytokinesis," J. Cell Biol. 147:921-927, The Rockefeller University Press (November 1999). Timmons, L., and Fire, A., "Specific interference by ingested dsRNA," Nature AΤ 27 395:854, Macmillan Publishers Inc. (1998). EXAMINER DATE CONSIDERED

FORM PTO-144

ATTY. DOCKET NO. 0652.2260001/EKS/AES

APPLICATION NO. 09/881,736

APPLICANT GLOTZER et al.

FILING DATE June 18, 2001 GROUP 1653

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	AS	<u>28</u>	Vale, R.D. Cell Dev.	and Fletteri Biol. 13:745-	tterick, R.J., "The Design Plan of Kinesin Motors," <i>Annu. Rev.</i> :745-777, Annual Reviews, Inc. (1997).						
	AT	<u>28</u>	Molecular	and Milligan Motor Protein nt of Science	, R.A., "The Way Things I s," <i>Science 288</i> :88-95, Tl (April 2000).	Move: Looking he American A	Under th	ne Hood of on for the			
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INFORMATION DISCLOSURE STATEMENT

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	AS	<u>29</u>	Van de Putte, T. et al., "Mice with a homozygous gene trap vector inse mgcRacGAP die during pre-implantation development," Mech. Dev. 102:33-Elsevier Science Ireland Ltd. (April 2001).							
	АТ	29	Waddle, J.A. et al., "Transient localized accumulation of actin in <i>Caenorhabdit elegans</i> blastomeres with oriented asymmetric divisions," <i>Development 120</i> :2317-2328, The Company of Biologists Limited (1994).							
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0652.2260001/EKS/AES

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GLOTZER et al.

FILING DATE June 18, 2001 GROUP 1653

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	AT	<u>30</u>	Wilson, I. Cell 37:76	Wilson, I.A. et al., "The Structure of an Antigenic Determinant in a Protein," Cell 37:767-778, The Massachusetts Institute of Technology (1984).							
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FORM PTO-144 INFORMATION DISCLOSURE

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APPLICATION NO. 09/881,736

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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INFORMATION DISCLOSURE STATEMENT

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